

SALT LAKE COMMUNITY COLLEGE
PROFESSIONAL CEU COURSE

Course Outline: Energy Management Basics

- What is Energy Management?
- Energy Sources
 - Non-renewable sources
 - Renewable sources
- Energy Use
 - Energy balance
 - Utility bill analysis
 - Energy accounting
 - Energy economics
- Energy Audits
 - Different types of audits
 - Energy Management Opportunities (EMOs)
- Building Envelope
 - Thermal resistance and infiltration
 - Solar heat gain
- HVAC Systems
 - Performance rating
 - Equipment types
 - Maintenance and commissioning
- Industrial Systems
 - Motors and drives
 - Combined heat and power
 - Boilers
- Lighting
 - Efficiency and efficacy
 - Types of lighting
- Energy Savings
 - Demand side management
 - Measurement and verification
 - Utility incentives

- Energy Management Outlook

Learning objectives

- *Students will understand how many varied fields are involved with Energy Management*
- *Students will understand how to make energy saving decisions*
- *Students will understand the issues of energy balancing and accounting*
- *Students will learn some basic energy saving opportunities*